

**PCT****REQUEST**

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

International Application No. PCT/FR00/03084

International Filing Date: November 6, 2000

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum) PHM/VL/CO19**Box No. I TITLE OF INVENTION**

DEVICE FOR FIXING A MANIFOLD FOR FLUID DISTRIBUTION

**Box No. II APPLICANT** This person is also inventor

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

COMAP ABBEVILLE  
213 boulevard Voltaire  
F-80100 ABBEVILLE  
France

Telephone No.

Facsimile No.

Teleprinter No.

Applicant's registration No. with the Office

State (that is, country) of nationality:

France

State (that is, country) of residence:

France

This person is applicant  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box for the purposes of:

**Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)**

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Michel BRUVRY  
70 La Ruellette  
F-80132 HAUTVILLIERS  
France

This person is:

 applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

France

State (that is, country) of residence:

France

This person is applicant for  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box for the purposes of:

 Further applicants and/or (further) inventors are indicated on a continuation sheet.**Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

 agent common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

CABINET GERMAIN et MAUREAU  
CABINET GERMAIN et MAUREAU  
BP 6153  
F-69466 LYON CEDEX 06  
FRANCE

Telephone No.

04 72 69 84 30

Facsimile No.

04 72 69 84 31

Teleprinter No.

Agent's registration No. with the Office

 Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

**Box No. V DESIGNATION OF STATES***Mark the applicable check-boxes below; at least one must be marked.*The following designations are hereby made under Rule 4.9(a): (**Double-click here if you want all the boxes below checked.**)**Regional Patent**

- AP ARIPO Patent:** GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- EA Eurasian Patent:** AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- EP European Patent:** AT Austria, BE Belgium, CH & LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- OA OAPI Patent:** BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (*if other kind of protection or treatment desired, specify on dotted line*).....

**National Patent (if other kind of protection or treatment desired, specify on dotted line):**

|  |   |   |
|--|---|---|
| <input type="checkbox"/> AE United Arab Emirates .....               | <input type="checkbox"/> GE Georgia .....                                   | <input type="checkbox"/> MW Malawi .....                              |
| <input type="checkbox"/> AG Antigua and Barbuda .....                | <input type="checkbox"/> GH Ghana .....                                     | <input type="checkbox"/> MX Mexico .....                              |
| <input type="checkbox"/> AL Albania .....                            | <input type="checkbox"/> GM Gambia .....                                    | <input type="checkbox"/> MZ Mozambique .....                          |
| <input type="checkbox"/> AM Armenia .....                            | <input type="checkbox"/> HR Croatia .....                                   | <input type="checkbox"/> NO Norway .....                              |
| <input type="checkbox"/> AT Austria .....                            | <input type="checkbox"/> HU Hungary .....                                   | <input type="checkbox"/> NZ New Zealand .....                         |
| <input type="checkbox"/> AU Australia .....                          | <input type="checkbox"/> ID Indonesia .....                                 | <input type="checkbox"/> PL Poland .....                              |
| <input type="checkbox"/> AZ Azerbaijan .....                         | <input type="checkbox"/> IL Israel .....                                    | <input type="checkbox"/> PT Portugal .....                            |
| <input type="checkbox"/> BA Bosnia and Herzegovina .....             | <input type="checkbox"/> IN India .....                                     | <input type="checkbox"/> RO Romania .....                             |
| .....  | <input type="checkbox"/> IS Iceland .....                                   | <input type="checkbox"/> RU Russian Federation .....                  |
| <input type="checkbox"/> BB Barbados .....                           | <input type="checkbox"/> JP Japan .....                                     | .....   |
| <input type="checkbox"/> BG Bulgaria .....                           | <input type="checkbox"/> KE Kenya .....                                     | <input type="checkbox"/> SD Sudan .....                               |
| <input type="checkbox"/> BR Brazil .....                             | <input type="checkbox"/> KG Kyrgyzstan .....                                | <input type="checkbox"/> SE Sweden .....                              |
| <input type="checkbox"/> BY Belarus .....                            | <input type="checkbox"/> KP Democratic People's Republic of Korea .....     | <input type="checkbox"/> SG Singapore .....                           |
| <input type="checkbox"/> BZ Belize .....                             | <input type="checkbox"/> KR Republic of Korea .....                         | <input type="checkbox"/> SI Slovenia .....                            |
| <input checked="" type="checkbox"/> CA Canada .....                  | <input type="checkbox"/> KZ Kazakhstan .....                                | <input type="checkbox"/> SK Slovakia .....                            |
| <input type="checkbox"/> CH & LI Switzerland and Liechtenstein ..... | <input type="checkbox"/> LC Saint Lucia .....                               | <input type="checkbox"/> SL Sierra Leone .....                        |
| <input type="checkbox"/> CN China .....                              | <input type="checkbox"/> LK Sri Lanka .....                                 | <input type="checkbox"/> TJ Tajikistan .....                          |
| <input type="checkbox"/> CO Colombia .....                           | <input type="checkbox"/> LR Liberia .....                                   | <input type="checkbox"/> TM Turkmenistan .....                        |
| <input type="checkbox"/> CR Costa Rica .....                         | <input type="checkbox"/> LS Lesotho .....                                   | <input type="checkbox"/> TR Turkey .....                              |
| <input type="checkbox"/> CU Cuba .....                               | <input type="checkbox"/> LT Lithuania .....                                 | <input type="checkbox"/> TT Trinidad and Tobago .....                 |
| <input type="checkbox"/> CZ Czech Republic .....                     | <input type="checkbox"/> LU Luxembourg .....                                | <input type="checkbox"/> TZ United Republic of Tanzania .....         |
| <input type="checkbox"/> DE Germany .....                            | <input type="checkbox"/> LV Latvia .....                                    | <input type="checkbox"/> UA Ukraine .....                             |
| <input type="checkbox"/> DK Denmark .....                            | <input type="checkbox"/> MA Morocco .....                                   | <input type="checkbox"/> UG Uganda .....                              |
| <input type="checkbox"/> DM Dominica .....                           | <input type="checkbox"/> MD Republic of Moldova .....                       | <input checked="" type="checkbox"/> US United States of America ..... |
| <input type="checkbox"/> DZ Algeria .....                            | .....   | .....   |
| <input type="checkbox"/> EE Estonia .....                            | <input type="checkbox"/> MG Madagascar .....                                | <input type="checkbox"/> UZ Uzbekistan .....                          |
| <input type="checkbox"/> ES Spain .....                              | <input type="checkbox"/> MK The former Yugoslav Republic of Macedonia ..... | <input type="checkbox"/> VN Viet Nam .....                            |
| <input type="checkbox"/> FI Finland .....                            | <input type="checkbox"/> MN Mongolia .....                                  | <input type="checkbox"/> YU Yugoslavia .....                          |
| <input type="checkbox"/> GB United Kingdom .....                     | .....   | <input type="checkbox"/> ZA South Africa .....                        |
| <input type="checkbox"/> GD Grenada .....                            | .....   | <input type="checkbox"/> ZW Zimbabwe .....                            |

Check-boxes reserved for designating States which have become party to the PCT after issuance of this sheet

|                                |                                |                                |
|--------------------------------|--------------------------------|--------------------------------|
| <input type="checkbox"/> ..... | <input type="checkbox"/> ..... | <input type="checkbox"/> ..... |
|--------------------------------|--------------------------------|--------------------------------|

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except the designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (*Confirmation (including fees) must reach the receiving Office within the 15-month time limit.*)

**Box No. VI PRIORITY CLAIM**

The priority of the following earlier application(s) is hereby claimed:

| Filing date<br>of earlier application<br>(day/month/year) | Number<br>of earlier application | Where earlier application is:    |  |  |
|---|----------------------------------|----------------------------------|--|--|
|   |                                  | national application:<br>country | regional application: *<br>regional Office | international application:<br>receiving Office |
| item (1)<br>08-11-1999                                    | 9914251                          | France                           |  |  |
| item (2)  |                                  |                                  |  |  |
| item (3)  |                                  |                                  |  |  |
| item (4)  |                                  |                                  |  |  |
| item (5)  |                                  |                                  |  |  |

Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (*only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office*) identified above as:

all items     item (1)     item (2)     item (3)     item (4)     item (5)     other, see  
Supplemental  
Box

\**Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):* .....

**Box No. VII INTERNATIONAL SEARCHING AUTHORITY**

**Choice of International Searching Authority (ISA)** (*if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used*):

ISA /EP.....

**Request to use results of earlier search: reference to that search** (*if an earlier search has been carried out by or requested from the International Searching Authority*):

|                       |            |                              |
|-----------------------|------------|------------------------------|
| Date (day/month/year) | Number     | Country (or regional Office) |
| 14-07-2000            | FA 578 758 | EP                           |

**Box No. VIII DECLARATIONS**

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

|                          |                    |  |   |
|--------------------------|--------------------|--|---|
| <input type="checkbox"/> | Box No. VIII (i)   | Declaration as to the identify of the inventor   | : |
| <input type="checkbox"/> | Box No. VIII (ii)  | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent             | : |
| <input type="checkbox"/> | Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | : |
| <input type="checkbox"/> | Box No. VIII (iv)  | Declaration of inventorship (only for the purposes of the designation of the United States of America)                               | : |
| <input type="checkbox"/> | Box No. VIII (v)   | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty:  | : |

**Box No. IX CHECK LIST; LANGUAGE OF FILING**

This international application contains:

(a) the following number of sheets in paper form:

|   |   |   |
|---|---|---|
| request (including declaration sheets)        | : | 4 |
| description (excluding sequence listing part) | : | 7 |
| claims  | : | 2 |
| abstract                                      | : | 1 |
| drawings                                      | : | 2 |

**Sub-total number of sheets: 16**

sequence listing part of description (*actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below*) :

**Total number of sheets : 16**

(b) sequence listing part of description filed in computer readable form

- (i)  only (under Section 801(a)(i))
- (ii)  in addition to being filed in paper form (under Section 801(a)(ii))

Type and number of carriers (diskette, CD-ROM, CD-R or other) on which the sequence listing part is contained (*additional copies to be indicated under item 9(ii), in right column*):

**Figure of the drawings which should accompany the abstract: 1**This international application is accompanied by the following item(s) (*mark the applicable check-boxes below and indicate in right column the number of each item*):

1.  fee calculation sheet :
2.  original separate power of attorney :
3.  original general power of attorney :
4.  copy of general power of attorney; reference number, if any: .....
5.  statement explaining lack of signature :
6.  priority document(s) identified in Box No. VI as item(s): .....
7.  translation of international application into (*language*): .....
8.  separate indications concerning deposited microorganism or other biological material :
9.  sequence listing in computer readable form (indicate also type and number of carriers (diskette, CD-ROM, CD-R or other )) :
  - (i)  copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application) :
  - (ii)  (*only where check-box (b)(i) or (b)(ii) is marked in left column*) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter :
  - (iii)  together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column :
10.  other (*specify*) .....

**Language of filing of the international application: French****Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE***Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).*

CABINET GERMAIN et MAUREAU  
 Philippe MAUREAU  
 Mandataire

**For receiving Office use only**

1. Date of actual receipt of the purported international application:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:
4. Date of timely receipt of the required corrections under PCT Article 11(2):
5. International Searching Authority (if two or more are competent): ISA /EP

6.  Transmittal of search copy delayed until search fee is paid**2. Drawings:** received: not received:**For International Bureau use only**Date of receipt of the record copy  
 by the International Bureau:*See Notes to the request form*

## TRAITE DE COOPERATION EN MATIERE DE BRETS

## PCT

## RAPPORT DE RECHERCHE INTERNATIONALE

(article 18 et règles 43 et 44 du PCT)

|  |  |  |
|--|--|--|
| Référence du dossier du déposant ou du mandataire<br>PHM/VL/C019 | <b>POUR SUITE</b><br><b>A DONNER</b>                       | voir la notification de transmission du rapport de recherche internationale (formulaire PCT/ISA/220) et, le cas échéant, le point 5 ci-après |
| Demande internationale n°<br>PCT/FR 00/03084                     | Date du dépôt international/jour/mois/année)<br>06/11/2000 | (Date de priorité (la plus ancienne)<br>(jour/mois/année)<br>08/11/1999  |
| Déposant<br><br>COMAP ABBEVILLE                                  |  |  |

Le présent rapport de recherche internationale, établi par l'administration chargée de la recherche internationale, est transmis au déposant conformément à l'article 18. Une copie en est transmise au Bureau international.

Ce rapport de recherche internationale comprend 3 feilles.

Il est aussi accompagné d'une copie de chaque document relatif à l'état de la technique qui y est cité.

**1. Base du rapport**

- a. En ce qui concerne la **langue**, la recherche internationale a été effectuée sur la base de la demande internationale dans la langue dans laquelle elle a été déposée, sauf indication contraire donnée sous le même point.
  - la recherche internationale a été effectuée sur la base d'une traduction de la demande internationale remise à l'administration.
- b. En ce qui concerne les **séquences de nucléotides ou d'acides aminés** divulguées dans la demande internationale (le cas échéant), la recherche internationale a été effectuée sur la base du listage des séquences :
  - contenu dans la demande internationale, sous forme écrite.
  - déposée avec la demande internationale, sous forme déchiffrable par ordinateur.
  - remis ultérieurement à l'administration, sous forme écrite.
  - remis ultérieurement à l'administration, sous forme déchiffrable par ordinateur.
  - La déclaration, selon laquelle le listage des séquences présenté par écrit et fourni ultérieurement ne vas pas au-delà de la divulgation faite dans la demande telle que déposée, a été fournie.
  - La déclaration, selon laquelle les informations enregistrées sous forme déchiffrable par ordinateur sont identiques à celles du listage des séquences présenté par écrit, a été fournie.

2.  **Il a été estimé que certaines revendications ne pouvaient pas faire l'objet d'une recherche** (voir le cadre I).

3.  **Il y a absence d'unité de l'invention** (voir le cadre II).

4. En ce qui concerne le **titre**,

- le texte est approuvé tel qu'il a été remis par le déposant.
- Le texte a été établi par l'administration et a la teneur suivante:

5. En ce qui concerne l'**abrégé**,

- le texte est approuvé tel qu'il a été remis par le déposant
- le texte (reproduit dans le cadre III) a été établi par l'administration conformément à la règle 38.2b). Le déposant peut présenter des observations à l'administration dans un délai d'un mois à compter de la date d'expédition du présent rapport de recherche internationale.

6. La figure **des dessins** à publier avec l'abrégé est la Figure n°

- suggérée par le déposant.
- parce que le déposant n'a pas suggéré de figure.
- parce que cette figure caractérise mieux l'invention.

1

Aucune des figures  
n'est à publier.

# RAPPORT DE RECHERCHE INTERNATIONALE

Date de Internationale No

FR 00/03084

## A. CLASSEMENT DE L'OBJET DE LA DEMANDE

CIB 7 F16L3/10

Selon la classification internationale des brevets (CIB) ou à la fois selon la classification nationale et la CIB

## B. DOMAINES SUR LESQUELS LA RECHERCHE A PORTE

Documentation minimale consultée (système de classification suivi des symboles de classement)

CIB 7 F16L F16B E03C E03F E05C

Documentation consultée autre que la documentation minimale dans la mesure où ces documents relèvent des domaines sur lesquels a porté la recherche

Base de données électronique consultée au cours de la recherche internationale (nom de la base de données, et si réalisable, termes de recherche utilisés)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERES COMME PERTINENTS

| Catégorie ° | Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents                                      | no. des revendications visées |
|-------------|---|-------------------------------|
| X           | US 2 550 001 A (BUTTON F. L.)<br>24 avril 1951 (1951-04-24)<br>colonne 3, ligne 35 - ligne 46; figure 6<br>---                      | 1                             |
| A           | FR 2 326 606 A (COTTINET ET CIE ETS)<br>29 avril 1977 (1977-04-29)<br>page 1, ligne 33 -page 2, ligne 25; figure 1<br>---           | 1-5                           |
| A           | DE 298 10 680 U (FRASA<br>VERTRIEBSGESELLSCHAFT FU)<br>10 septembre 1998 (1998-09-10)<br>page 1, ligne 10 - ligne 23; figure<br>--- | 1-5                           |
| A           | US 4 799 641 A (KORESKI MARTIN J)<br>24 janvier 1989 (1989-01-24)<br>colonne 2, ligne 23 - ligne 55; figure 4<br>---                | 1, 2<br>-/-                   |

Voir la suite du cadre C pour la fin de la liste des documents

Les documents de familles de brevets sont indiqués en annexe

° Catégories spéciales de documents cités:

- \*A\* document définissant l'état général de la technique, non considéré comme particulièrement pertinent
- \*E\* document antérieur, mais publié à la date de dépôt international ou après cette date
- \*L\* document pouvant jeter un doute sur une revendication de priorité ou cité pour déterminer la date de publication d'une autre citation ou pour une raison spéciale (telle qu'indiquée)
- \*O\* document se référant à une divulgation orale, à un usage, à une exposition ou tous autres moyens
- \*P\* document publié avant la date de dépôt international, mais postérieurement à la date de priorité revendiquée

\*T\* document ultérieur publié après la date de dépôt international ou la date de priorité et n'appartenant pas à l'état de la technique pertinent, mais cité pour comprendre le principe ou la théorie constituant la base de l'invention

\*X\* document particulièrement pertinent; l'invention revendiquée ne peut être considérée comme nouvelle ou comme impliquant une activité inventive par rapport au document considéré isolément

\*Y\* document particulièrement pertinent; l'invention revendiquée ne peut être considérée comme impliquant une activité inventive lorsque le document est associé à un ou plusieurs autres documents de même nature, cette combinaison étant évidente pour une personne du métier

\*&\* document qui fait partie de la même famille de brevets

Date à laquelle la recherche internationale a été effectivement achevée

2 février 2001

Date d'expédition du présent rapport de recherche internationale

12/02/2001

Nom et adresse postale de l'administration chargée de la recherche internationale  
Office Européen des Brevets, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Fonctionnaire autorisé

Axelsson, T

**RAPPORT DE RECHERCHE INTERNATIONALE**

Demande Internationale No

FR 00/03084

**C.(suite) DOCUMENTS CONSIDERES COMME PERTINENTS**

| Catégorie | Identification des documents cités, avec, le cas échéant, l'indication des passages pertinents   | no. des revendications visées |
|-----------|--|-------------------------------|
| A         | EP 0 872 598 A (THERMCONCEPT PRODUKTE FUER HEI) 21 octobre 1998 (1998-10-21)<br>colonne 3, ligne 48 - ligne 58<br>colonne 5, ligne 12 - ligne 21; figures 2-4<br>----- | 1,6,7,9,<br>10                |

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

FR 00/03084

| Patent document cited in search report |   | Publication date | Patent family member(s) |   | Publication date |
|--|---|------------------|-------------------------|---|------------------|
| US 2550001                             | A | 24-04-1951       | NONE                    |   |                  |
| FR 2326606                             | A | 29-04-1977       | NONE                    |   |                  |
| DE 29810680                            | U | 10-09-1998       | NONE                    |   |                  |
| US 4799641                             | A | 24-01-1989       | NONE                    |   |                  |
| EP 0872598                             | A | 21-10-1998       | DE 29706949             | U | 28-08-1997       |